



## ICAA/ ICCSE 2023 Program

**August 7-9, 2023, Nanyang Technological University, Singapore**

<b>Day 1: Mon., August 7, 2023</b> <b>Venue: Lee Kong Chian School of Medicine, Clinical Sciences Building</b> <b>Ong Tiong Tat &amp; Irene Tan Liang Kheng Auditorium, 11 Mandalay Road, Singapore 308232</b>	
9:00 – 9:05	Opening Remarks
9:05 – 10:00	Invited Talk (45mins pre + 10mins Q&A) The Promise of AI for Ageless Aging: a Clinician's Perspective, <b>Martin J. McKeown (UBC, Canada)</b>
10:00 – 10:40	Invited Talk (30mins pre + 10mins Q&A), <b>Sarit Kraus (Bar-Ilan University, Israel)</b>
10:40 – 11:00	Tea Break
10:00 – 10:40	Invited Talk (30mins pre + 10mins Q&A), <b>Xu Hong (NTU, Singapore)</b>
11:40 – 11:55	Evaluating Senior Residents Attitude to Home Monitoring Systems to Facilitate Aging at Home, <b>Iain P Werry (Webank JRC)</b>
11:55 – 12:10	Smartphone-based Automatic Motor Examination for Parkinson's Disease: a machine learning-based explainable platform for diagnosis and severity evaluation, <b>Yanci Zhang (NTU)</b>
12:10 – 12:25	Mobile-based Clock Drawing Test for Detecting Early Signs of Dementia, <b>Hongchao Jiang (Alibaba JRI)</b>
12:25 - 14:30	Lunch Time
14:30 – 14:40	Opening Remarks
14:40 - 15:10	Invited Talk (25 mins pre + 5mins Q&A) Predicting mortality in AKI patients receiving renal replacement therapy in intensive care unit, <b>Du Juan (Qilu Hospital), Chen Xiaomei (Qilu Hospital), Yinan Zhang (Alibaba JRI)</b>
15:10 - 15:40	Invited Talk (25 mins pre + 5mins Q&A) FedDBM: Federated Digital Biomaker for "Detecting" Parkinson's Disease Progress, <b>Yiqiang Chen (CAS)</b>
15:40 – 16:10	Invited Talk (25 mins pre + 5mins Q&A), <b>Chen Huanhuan (USTC)</b>
16:10 – 16:30	Tea break
16:30 - 17:00	Invited Talk (25mins pre + 5mins Q&A), <b>Zhiqi Shen (NTU)</b>
17:00 – 17:15	Challenges of Applying Generative AI in the Healthcare Domain, <b>Zhenchao Tao (USTC)</b>
17:15– 17:30	Innovating Healthcare with mmWave Radar: Non-Invasive Vital Signal Detection and Beyond, <b>Wang Zijie (LILY)</b>
17:30 – 18:00	Closing

<b>Day 2: Tue., August 8, 2023</b> <b>Venue: ABN Seminar Room 1-1 (Level 1, ABN 01a-CF2) (57 pax)</b> ABN, Nanyang Technological University, 50 Nanyang Ave, 639798	
8:30 - 9:00	Registration & <b>Group Photo</b>
9:00 - 9:15	Welcome Speech (ICCSE): Prof Jane Wang Welcome Speech (ICAA): Prof Cyril Leung MC: Dr Iain Philip Werry
9:15 - 9:45	<b>ICAA Keynote #1: The Promise of AI for Ageless Aging: a Clinician's Perspective, Prof Martin J. McKeown (UBC)</b> Host: Prof Cyril Leung
9:45 - 10:15	<b>ICCSE Keynote #1: Towards Trustworthy Federated Learning, Prof Han Yu</b> Host: Dr Wei Yang Bryan Lim
10:15 - 10:45	Tea break
10:45 - 12:15 Chairs: <b>Yiqiang Chen, Yinan Zhang</b>	<b>ICAA 2023 Session #1: AI for Health</b> <b>Venue: ABN Seminar Room 1-1 (Level 1, ABN 01a-CF2)</b> <ol style="list-style-type: none"> <li>1) A teachable agent for improving ikigai, Chen Ping</li> <li>2) Mobile-based Clock Drawing Test for Detecting Early Signs of Dementia, Hongchao Jiang</li> <li>3) Chronic Disease Diagnoses Using Behavioral Data, Yidan Hu</li> <li>4) Conflicts and Solicitudes Stemmed from Large Language Models - a Journey from ChatGPT, Yinan Zhang</li> </ol>
10:45 - 12:15 Chairs: <b>Leiju Qiu, Bryan Lim</b>	<b>ICCSE Session #1: Service Performance Evaluation and Digital Trade</b> <b>Venue: ABN Conference Room B2-1 (ABN)</b> <ol style="list-style-type: none"> <li>1) Service Performance Evaluation: From Service Quality, Service Efficiency to Service Efficacy, Baowen Sun</li> <li>2) The Impact of Digital Service Trade Facilitation on the Development of Digital Service Trade, Hang Liu</li> <li>3) Online and Offline Price Difference and E-Commerce Development, Dongyang Li</li> <li>4) Research on Digital Financial Governance under the Background of High-Level Opening of Capital Market, Wentao Zhang</li> <li>5) Curbing Fake News Dissemination on Social Media – The Effect of Crowd Ratings Strategies, Qian Liu</li> <li>6) Measurement, Diagnosis, and Optimization of Economic Effects of Subway Network Services, Leiju Qiu</li> </ol>
10:45 - 12:15 Chairs: <b>Xiao Sun, Jun Lin</b>	<b>ICCSE Session #2: Crowd Engagement and Decision-making</b> <b>Venue: ABN Meeting Room 1-1 (ABN-01b-CF4)</b> <ol style="list-style-type: none"> <li>1) Research on the Evaluation Mechanism of "Enlisting and Leading" Scientific Research Team under the Background of Crowd Intellectual Thinking, Yi He</li> <li>2) An Interaction Intensity Based Group Intelligence Calculation Method, Xiao Sun</li> <li>3) Centered low-intelligence subjects with appropriate noise enhance coordination in networks, Jinwei Miao</li> <li>4) Enhancing Human Activity Recognition through Self-supervised Learning Techniques, Qianwen Meng</li> <li>5) A Review of Research on the Group Intelligence Phenomenon, Jun Qian</li> <li>6) An aggregating method for controversial group decision-making based on correlation coefficient, Ziyang Wang (remotely)</li> </ol>

10:45 - 12:15 Chairs: <b>Di Wang, Hongchao Jiang</b>	<b>ICCSE Session #3: Data Analysis and Machine Learning</b> <b>Venue: ABN Meeting Room 1-2 (ABN-01b-CF5)</b> <ol style="list-style-type: none"> <li>1) A Spatial-Temporal Model for Short-term and Fine-grained PM2.5 Concentration Forecasting, Xiaonuo Yang</li> <li>2) Survey on AI-assisted Power Transmission Line Fault Detection, Yonghui Xu</li> <li>3) Causal Knowledge Integrated with Attention for Interpretable Event Detection, Xuan Li</li> <li>4) prompt-based learning for factual knowledge infusion in large language models, Ziheng Cheng</li> <li>5) Spatio-temporal Relationship Analysis of Events Based on News Event Data, Jibing Wu</li> <li>6) Entity information and Multi-arguments Prompts Integrated for Document-level Event Extraction, Hongbin Huang</li> </ol>
12:30 - 14:00	Lunch
13:00-14:00	POSTER/DEMO Session
14:00 - 14:30	<b>ICCSE Keynote #2: Multi-label Aerial Image Classification with Single Positive Label, Prof Jane Wang</b> Host: Prof Huanhuan Chen
14:30 - 15:00	<b>ICAA Keynote #2: FedDBM: Federated Digital Biomarker for "Detecting" Parkinson's Disease Progress, Prof Yiqiang Chen</b> Host: Prof Huanhuan Chen
15:00 - 15:30	Tea break
15:30 - 17:00 Chairs: <b>Yilin Kang, Di Wang</b>	<b>ICCSE Session #4/ICAA Session #2: Machine Learning and Healthcare</b> <b>Venue: ABN Seminar Room 1-1 (Level 1, ABN 01a-CF2)</b> <ol style="list-style-type: none"> <li>1) Exploring the Impact of Information Characteristics on Citizen Engagement in Government Weibo during COVID-19 with the QCA Method, Xiao Luo</li> <li>2) Research on optimal control strategy for infectious disease prevention and control, Na Liu</li> <li>3) Data-Driven Dynamic Emergency Resource Allocation in the Context of COVID-19 Epidemic, Kaiming Xiao</li> <li>4) Towards Learning to Discover Citizens' Concerns during Epidemic in Massive Government Service Hotline, Yilin Kang</li> <li>5) A Three-branch BERT-based Text Classification Network for Gastroscopy Diagnosis Text, Xiangwei Zheng</li> <li>6) Graph Convolutional Neural Network based Emotion Recognition with Brain Functional Connectivity Network, Xiangwei Zheng</li> </ol>
15:30 - 17:00 Chairs: <b>Jane Z. Wang, Hongchao Jiang</b>	<b>ICCSE Session #5: Information Processing and Forecasting</b> <b>Venue: ABN Meeting Room 1-1 (ABN-01b-CF4)</b> <ol style="list-style-type: none"> <li>1) Service Quality-Aware Decentralized Client Selection Based on Blockchain in Federated Learning, Yuehan Su</li> <li>2) Effect of Sampling Frequency and Window Size on Identifying Risky Driving Maneuvers, Xuehao Yang</li> <li>3) Online Search Planning for Multiple UAVs Based on Online Linear Programming, Lihua Liu</li> </ol>

	4) Index prediction model based on LASSO and PCA feature dimension reduction method, Bo Xu (remotely) 5) Architecture design of occupational annuity business platform based on blockchain, Kai Qiu (remotely)
15:30 - 17:00 Chairs: <b>Liang Zou, Bryan Lim</b>	<b>ICCSE Session #6: Technology Applications and Social Issues</b> <b>Venue: ABN Meeting Room 1-2 (ABN-01b-CF5)</b>  1) Coal Origin Identification Based on Improved U-Net3+ and Near-Infrared Spectroscopy, Liang Zou 2) Computational Experiments: Virtual Production and Governance Tool for Metaverse, Xiao Xue 3) Programming Task Recommendation Based on Crowdsourcing, Kairui Chen 4) An optimization method for near-field power synthesis of ultra-sparse arrays, Qiuju Chen 5) Research and Practice on the Development pattern and Ecological Evolution Mechanism of Industry Internet, Shuangxi Huang
17:00 - 18:00 Chairs: <b>Prof Yueting Chai, Prof Chunyan Miao, Prof Cyril Leung</b>	<b>IJCS Development Forum (by invitation)</b> <b>Venue: ABN Conference Room B2-1 (ABN)</b> Attendees: Prof Baowen Sun, Prof Yongqing Zheng, Prof Jane Wang, Prof Dusit Niyato, Prof Yiqiang Chen, Prof Huanhuan Chen, Prof Jun Lin, Prof Zhiqi Shen, Prof Han Yu, Prof Leiju Qiu, Prof Xiao Sun, Prof Xiao Xue, Prof Yonghui Xu, Prof Liang Zou, Dr Wei Yang Bryan Lim, Li Zhang, Lin Zhao
18:30 - 21:00	Award Banquet

<b>Day 3: Wed., August 9, 2023</b> Nanyang Technological University, 50 Nanyang Ave, 639798	
Steering committee meeting, Network Meeting, University Visit and Social Event	